

## CLAIMS

What is claimed is:

- 1        1. A gaseous composition, comprising  $^{17}\text{F}$  labeled fluoromethane  
2 and having an equilibrium activity of greater than or about 20 mCi.
- 1        2. The gaseous composition according to claim 1, wherein the  
2 equilibrium activity is greater than or about 40 mCi.
- 1        3. The gaseous composition according to claim 1, wherein the  
2 equilibrium activity is greater than or about 70 mCi.
- 1        4. The gaseous composition according to claim 1, further  
2 comprising neon.